

Kinetics of Propylene Polymerization with Various  
Stereospecific Heterogeneous Catalysts. Part II.,  
The Influence of Temperature and Pressure on the  
Kinetics of Polymeric Chain Growth and Termination  
Processes, by G. Ravta, I. Pasquon, et al., p.

ITALIAN, per, La Chim e Ind., 1958, Vol. 16, No. 2,  
pp 103-111.

SCI MAR 60 VOL 3, NO 1

Atactic and Stereoblock Polymers from Alpha-Olefins, by G. Natta, G. Mazzanti, P. Longi, 17 pp.

ITALIANI, Per, la Chimica e l'Industria, 1958, Vol XL, No 3, pp 183-188.

SLA 59-15515

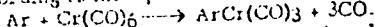
Sci  
Oct 59  
Vol 2, No 3

99 889

Natta, G., Ercoli, R., and Calderazzo, F.  
SYNTHESIS OF AROMATIC-CHROMIUM-TRICARBONYL COMPOUNDS [Sintesi di Areno-Cromo-Tricarbonile] [1961] 9, 5 refs.  
Order from SLA mS1.80, phS1.80 61-10700

Trans. of la Chimica e l'Industria (Italy) [1958]  
v. 40, no. 4, p. 287-289.

The method for the synthesis is based on the reaction between aromatic compounds and chromium hexacarbonyl according to the equation



In this manner aromatic-chromium-tricarbonyl compounds were prepared containing benzene, toluene, o-, m-, p-xylene, symmetrical trimethylbenzene, tetrahydrophthalene, chlorobenzene, anisole, benzyl alcohol and methylbenzoate. The compounds, which contain aromatic nuclei linked to the chromium with  $\sigma$  bonds, are crystalline yellow solids, sublimable at 60° to 100°C under a vacuum of  $10^{-2}$  mm Hg, and are insoluble except in benzene.

61-10700

1. Chromium carbonyls--  
Synthesis  
I. Natta, G.
- II. Ercoli, R.
- III. Calderazzo, F.

Trans. 4, 5  
(Chimica e l'Industria)  
III, v. 5, no. 1,

Polymerization of Ethylene and Other Olefines,  
by K. Ziegler, 9app.

ITALIAN, per, Chim e Industria, Vol XXXVII,  
1955, pp 861, 862.

SLA/IRSDNC-T-1993

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Natta, G., Ercoli, R., and Calderazzo, F.  
SYNTHESIS OF AROMATIC-CHROMIUM-TRICARBONYL COMPOUNDS [Sintesi di Arene-Cromo-Tri-carbonili]. [1963] 10p  
Order from K-II \$10.00 K-II 8254

Trans. of *la Chimica e l'Industria* (Italy) 1958, v. 40, no. 4, p. 287-289.  
Another trans. is available from SLA mi\$1.80, ph\$1.80 as 61-10700 [1961] 9p.

DESCRIPTORS: \*Metalorganic compounds, Synthesis (Chemistry), Benzen derivatives, \*Chromium compounds, "Carbonyl radicals, \*Benzenes, \*Toluenes, \*Xylenes, \*Naphthalenes, \*Benzoates.

For abstract see Technical Translations 5: 546, 1961.

(Chemistry--Organic, TT, v. 10, no. 11)

63-22467

- I. Title: Arene chromotricarbonyls
- II. Natta, G.
- III. Ercoli, R.
- IV. Calderazzo, F.
- V. Kresge-Hooker Science Library Associates, Detroit, Mich.

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Stereospecific Polymerization of Styrene. I.  
Data and Problems on Crystalline Polystyrenes, by  
G. Patta, F. Danusso.

ITALIAN, per, Chim e ind, Vol XI., No 6, 1958,  
pp 445-450.

SLA 162-451

ATS 161-LJ

SLA 59-17209

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Stereospecific Polymerization of Styrene, II.  
Characteristics of the Catalyst System  
 $TiCl_4 \cdot Al(C_2H_5)_3$ , 1959, by F. Danusso, R. Sianesi,  
18 pp.

ITALIAN, Per, La Chimica e l'Industria, 1959,  
Vol XL, No 6, pp 450-457.

SLA 59-15514  
473 157.25

Sci  
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Polymerization of Ethylene on Metallic Cesium  
and Rubidium, by G. Lemetre, V. Martello, G.  
Nobile-Orazio, 13 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XL,  
1953, pp 470-475.

SLA 59-15986

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Vol 2, No 7

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Heterogeneous Liquid-Phase Hydrogenation of Furan Compounds Catalyzed by Cobalt Carbonyls, R. Ercoli, R. E. Torregrosa,

ITALJAM, per, Chim e ind, Vol XL, No 7, 1958.  
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ATS 247-LJ

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Kinetics of the Polymerization of Propylene by  
Means of Heterogeneous Catalysts With High Stereo-  
Specificity. VI. Kinetic Determination of Active  
Centers, by G. Matta, et al.

ITALIAN, per, Chem e Ind, Vol XL, No 7, 1958,  
pp 556-560.

AT&T 156-IJ

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SUPERSONIC POLYMERIZATION OF DIFFERENT POLYMERS.  
KINETIC CHARACTERISTICS DURING POLYMERISATION OF  
ANAC H<sub>2</sub>O AND TIC<sub>2</sub>O BY P. ROMASCO, ET AL., J. R.

BRASILIA, 1959, Da Chimica e Industria, Vol. 1,  
No. 3, 1959, pp. 603-613.

SLA 59-25229

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Vol 2, No 2

78-043

The Reaction Between Quaternary Ammonium Sur-  
factants and methyl Orange, by Sergio Meloan,  
6 p.

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Vol III, No 8, pp 638-640.

SIA 59-20219

Sci  
Feb 60  
Vol 2, No 12

108 PBC

Copolymerization of Ethylene With Aliphatic -  
Olefins. Part 4. Ethylene-Propylene Copoly-  
merization by Means of Vanadium Trichloride  
Catalysts, by G. Battà, G. Massanti, et al, 12 pp.

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No 9, 1958, pp 717-724.

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Foraboschi, Franco P.  
CONVERSION IN A CONTINUOUS PHOTOCHEMICAL  
REACTOR: DIMENSIONAL CONSIDERATIONS.  
[1963] 14p. (fig., formulae omitted) 10 refs.  
Order from SLA \$1.60

63-14191

Trans. of la Chimica e l'Industria (Italy) 1959,  
v. 41, no. 8, p. 731-737.

DESCRIPTORS: \*Photochemistry, Laboratory equipment, Cylindrical bodies, Tanks (Containers), Monochromatic light, Fluid flow, Oxalic acids, Equations, Reaction kinetics.

The dimensioning of a continuous photochemical reactor, cylindrical with circular section, lighted uniformly with monochromatic light, when the motion of the fluid is laminar, is studied. Some simplified hypotheses are made and a system of equations (Chemistry--Physical, TT, v. 10, no. 4) (over)

63-14191

I. Foraboschi, F. P.

Office of Technical Services

Isotactic Polymers of Vinyl Monomers Containing  
Silicon, by G. Matta, G. Mazzanti, et al, 8 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XL,  
No 10, 1958, pp 813-815.

SLA 59-10172

Sci > Chem  
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Vol 2, No 1

97-272

Polymerization of Ethylene With Soluble Catalysts, by  
M. Farina, M. Ragazzini, 11 pp.

ITALIAN, per, Le Chimica e l'Industria, Vol XL, No 1,  
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SL 79-10170

Sci - Chem  
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Vol 3, No 1

97,264

Copolymerization of Ethylene with Aliphatic  
α -Olefins. IV. Ethylene-Propylene Copolymerization  
by Means of Titanium Halide Catalysts, by G. Natta,  
A. Valvassori, et al., pp 17 pp.

ITALIAN, per, Chimica e l'Industria, Vol XL, No 11,  
1958, pp 896-905.

Asso Tech Serv  
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Sci - Chem  
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Stereospecific Polymerization of Styrene. IV. The  
Effect of the Catalyst Ratio in the System Al ( $C_2H_5)_2-$   
 $TiCl_4$ , by F. Danusso, D. Sianesi, 16 pp.

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SIA 59-15978

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CONCERNING SOME REACTIONS OF THE ARYL-CHROMOTRICARBONYLS. [1963] 19p  
Order from K-H \$19.00 K-H 8891

Trans. of la Chimica e l'Industria (Italy) 1958, v. 40  
[no. 12] p. 1003-1007.  
Another trans. is available from SLA m1\$2.70,  
ph\$4.80 as 59-10425 [1959] 24p.

DESCRIPTORS: \*Metalorganic compounds, Benzene derivatives, \*Pyridines, \*Chromium compounds, \*Carbonyl radicals, Chemical reactions.

For abstract see Technical Translations 1; 398, 1959.

(Chemistry--Organic, TT, v. 10, no. 10)

63-22466

- I. Title: Arene Chromotri-carbonyls
- II. Natta, G.
- III. Ercoli, R.
- IV. Calderazzo, F.
- V. Santambrogio, E.
- VI. Kresge-Hooker Science Library Associates, Detroit, Mich.

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A Few Reactions of Arene Chromotricarbonyls,  
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ITALIAN, per, La Chimica e l'Industria, 1958,  
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SLA 59-10425

Sci - Chem  
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Stereospecific Polymerization of Styrene Article  
V. Effect of Temperature on Catalysis by  
 $\text{Al}(\text{C}_2\text{H}_5)_2$  and  $\text{TiCl}_4$ , by F. Danusso, B. Calcapone,  
D. Sianesi, 23 pp.

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No 1, 1959, pp 13-18.

SLA 59-15033

Sci - Chem  
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Stereospecific Polymerization of Conjugated Diolefins.  
II. Polymerization of Butadiene With Catalysts Pre-  
pared From Aluminum Alkyls and Soluble Vanadium  
Chlorides, by G. Natta, L. Porri, A. Mazzei, 20 pp.

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SIA 59-15340

Sci - Chemistry  
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The Klastomeric Properties of Ethylene-  
Propylene Copolymers, by G. Matta, G. Crespi,  
12 pp.

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SLA 59-15628

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Reactions Between Acetylene Hydrocarbons and  
Carbon Monoxide Catalyzed by Cobalt Carbonyls.  
PT. I. Octatrienediolides, by G. Albensi,  
M. Tovaglieri, 27 pp.

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SLA 59-15342

Sci  
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Vol 2, No 4

102, 731

Chromatographic Analysis in Gaseous Phase of Hydrocarbons from C<sub>1</sub> to C<sub>4</sub> by the Use of Magnesium Silicate, by V. Crespi and F. Cevolani.

ITALIAN, per, La Chimica e l'Industria, Vol XLI, No 3,  
1959, pp 215-217

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Production of Carbonyl Sulfide and of Sulfuric Anhydride, by M. Gazzola and M. del  
Guerra, G. F. Nancetti, 12 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLV,  
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SLA 60-14402

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II Characteristics of the  $\text{VOCl}_3\text{-Al}[\text{CH}_2\text{CH}(\text{CH}_3)_2]_3$   
Catalyst System, by I. Pasquon, E. Giachetti,  
L. Giuffre, 15 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLI,  
No 4, 1959, pp 281-286.

SLA 59-17205

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Stereospecific Polymerization of Vinyl-Aromatic Monomers, by D. Sianesi, M. Rampichini, F. Danusso, 15 p.

ITALIAN, per, La Chimica e l'Industria, 1959,  
Vol XII, No 4, pp 287-292.

SIA 59-17206

Sci  
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Vol 2, No 6

104,004

The Chemistry of Polyamides, by C. Chempérol,  
28 pp.

ITALIAN, per, La Chimica e l'Industria, Vol XI,  
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SLA 60-16659

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The Kinetics of Polymerization with the Copolytic  
System Vanadium Oxychloride and Aluminum, by  
I. Pasquon, M. Dente, F. Narduzzo, 25 p.

ITALIAN, per, la Chim Ind, 1959, Vol XL, No 5,  
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Vol 2, No 10

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Stereospecific Polymerization of Aromatic Vinyl  
Monomers, II. Halogen-Substituted Styrenes,  
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SLA 60-10599

Sci

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The Influence of Hydrogen on the Anionic  
Coordination Polymerisation of Propylene and  
of Ethylene, by G. Natta, G. Mazzanti, 20 p.

ITALIAN, per, Chimica e' Industria, 1959,  
Vol XL, No 6, pp 519-526.

SLA 60-10598

Sci  
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Stereospecific Polymerizations of Conjugated  
Diolefins, Note IV. Preparation of Syndiotactic  
1, 2-Polybutadiene, by G. Natta, L. Porri, 18 p.

ITALIAN, per, Chimica e l'Industria 1959,  
Vol XLII, No 6, pp 526-533.

SLA 60-10487

Sci  
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Vol III, No 3

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The Characteristics of the Polypropylene Obtained  
With the Catalytic System Vanadium Oxychloride-  
Aluminum Triisobutyl, by Italo Pasquon, 15 p.

ITALIAN, per, La Chim Ind, 1959, Vol XLI, No 6,  
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A New Italian Demonstration in the Textile Industry:  
The Polypropylene Fibre, by Giulio Mattei, 18 p.

ITALIAN, per, la Chimica e l'Industria, 1959,  
Vol XLI, No 7, pp 647-652.

SLA 59-20861

Bei  
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Vol 3, No 1

110, 971

The Copolymerization of Ethylene With the  
Aliphatic Alpha Olefins, Note VI.  
Copolymerization of Ethylene With Butene-1, by  
G. Ratta, G. Mazzanti, et al., 34 pp.

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SLA 66-10301

Sci  
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The Cryoscopy of High-molecular-weight Compounds,  
by U. Bianchi, C. Rossi, 14 pp.

ITALIAN, per, la Chimica e l'Industria,  
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SLA 60-14239

See  
Feb 52  
Vol. III, No 11

184,887

Cocco, Antonio.

COMPOSITION LIMITS AT HIGH TEMPERATURES  
OF THE PHASE, WITH CUBIC STRUCTURE, CON-  
SISTING OF ZrO<sub>2</sub> AND CaO. [1961] [10]p. 7 refs.  
Order from SLA m\$1.80, ph\$1.80 61-10898

Trans. of la Chimica e l'Industria (Italy) 1959, v. 41,  
no. 9, p. 882-886.

At a temperature of 1600°C, in an oxidizing milieu,  
the phase with cubic structure is limited to a range  
lying between about 5 and 10% CaO, and correspond-  
ingly 95 to 90% ZrO<sub>2</sub>. With higher percentages of  
CaO, CaO.ZrO<sub>2</sub> appears in equilibrium with this cu-  
bic phase. For lower percentages, on the other hand,  
the ZrO<sub>2</sub> appears with a tetragonal structure, which  
probably holds a very small percentage of calcium  
oxide in solid solution. At lower temperatures the  
domain of the cubic solid solution is restricted, as  
the curve bounding its extension toward ZrO<sub>2</sub> tends to  
shift toward the curve bounding its extension toward  
CaO.ZrO<sub>2</sub>. (Author)

61-10898

1. Calcium oxide-zirconium  
dioxide systems--Phase  
studies
1. Cocco, A.

148699

Office of Technical Services  
(Chemistry--Physical, TT, v. 5,  
no. 12)

Stereospecific Polymerization of Vinyl Aromatic Monomers. III. Vinyl Derivatives of Polynuclear Aromatic Hydrocarbons, by Dario Sianesi, Antonio Macchi, Ferdinando Danusso, 11 pp.

ITALIAN, per, IXXEHN la Chimica e l'Industria,  
Vol XII, No 10, 1959, pp 964-967.

~~REF ID: SLA 60-14125~~

Sci  
Jan 62  
Vol III, No 10

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Stereospecific Polymerization of Vinyl Aromatic Monomers. IV. Reactivity of the Monomers in the Overall Process, by G. Matta F. Danusso, et al, 20 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLI, No 10, 1959, pp 968-974.

SLA 60-14211

Sci  
OTS, Vol III, No 8  
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145, 119

Synthesis of Bis(Tricarbonylchromium) Complexes by  
Reaction of Binuclear Aromatic Compounds With  
Tricarbonyl-Chromium-Arenes, by R. Ercoli,  
P. Calderazzo, A. Alberola, 17 pp.

ITALIAN, per, La Chimica e l'Industria,  
Vol XXX, No 10, 1959, pp 975-980.

SLA 60-14560

Sci.  
Feb 62  
Vol XXX, No 11

184, 888

Heat Stability of PVC: Influence of the Kind  
of Initiator, by A. Cittadini, R. Paolillo.

~~Scienze~~, per, Chimica et l'Industria,  
Vol E KLI, No 10, 1959, pp 980-984.

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Sci - Chem  
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207, 653

The Viscometric Determination of the Average Molecular Weight of Ethylene-Propylene Copolymers, by P. Moraglio  
10 pp.

ITALIAN, per, La Chimica e l'Industria, Vol XLI,  
No 10, 1959, pp 984-987.

SLA 60-14210

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169.0~~6~~65

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Vol III, No 9

Stereospecific Polymerizations of Conjugated  
Diolefins. V. The Preparation and Properties  
of Isotactic 1,2-Polybutadiene, by G. Natta,  
L. PARRI.

ITALIAN, per, Chimica Industriale, Vol XI, No 12, 1959, pp 1163-1169.

CTB(Chem)-103

Sci  
26 May 62  
Vol IV, No 8

198, 218

Polymerization of Vinyl Chloride. VIII. Kinetic  
Chain Length and Mechanism in the Presence of  
Acrylonitrile-Butyronitrile, by F. Danusso,  
G. Pujaro, D. Sianesi.

ITALIAN, per, Chimica Industria, Vol III, No 12,  
1959, pp 1170-1175.

CBS(Chem)-102

Sci  
26 May 62  
Vol IV, No 8

198, 247

Sianesi, D. [Pajaro, G., and Danusso, F.].  
COMPOSITION AND REACTIVITIES IN THE STEREO-SPECIFIC COPOLYMERIZATION OF VINYL AROMATIC MONOMERS, tr. by H. H. Smith. July 60,  
13p. 13 refs.  
Order from SLA m152.40, ph\$3.30 60-18429

Trans. of la Chimica e l'Industria (Italy) 1959, v. 41,  
no. 12, p. 1176-1180.  
Another translation is available from CTS(Chem) \$8.00  
as CTS(Chem)-104 [1960] 2400 words.

The essential aspects are described of co-polymerization of vinyl aromatic monomers using catalysts of  $Al(C_4H_9)_3$  and  $TiCl_4$  under conditions already demonstrated as certainly stereospecific in homopolymerization of the same monomers. Co-polymerizations are examined of styrene with different styrenes substituted in the nucleus by alkyl groups or halogen atoms (o-methyl, p-methyl, m-methyl, p-ethyl, p-fluoro, p-chloro, p-bromo-styrene) and with 1-vinyl naphthalene.

60-18429

1. Vinyl compounds--  
Polymerization
2. Copolymerization
1. Sianesi, D.
- II. Pajaro, G.
- III. Danusso, F.

143,039

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(Chemistry--Organic, TT,  
v. 5, no. 3)

Detection and Determination of Manganese in Motor  
Fuels Containing Additives, by Mario Pedinelli, 12 pp.  
ITALIAN, per, ia Chimica e l'Industria, Vol XLI,  
No 12, 1959, pp 1180-1184.  
K-H 10995

Sci-Fuels  
March 64

252,091

Chromatography Applied to the Continuous Control  
of Industrial Plants. I. Analyses of a C<sub>2</sub> to C<sub>6</sub>  
Hydrocarbon Mixture, by A. Ricc, et al.

ITALIAN, per, Chimica e l'Industria, Vol. XII,  
Dec, Milan, 1959, pp 1185-1183.

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Sci - Chem

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R-3937-D

Halogen Derivatives, by Francesco Minisci.

ITALIANI, per, Chimica Italiana, Vol LXXXII, 1959,  
pp 1922-1940.

\*JPRS/Rav Propellant Plan

Sci - Chem

Mar 64

Acetylation of Cyclopentadienyl Vanadium  
Tetracarbonyl, by F. Calderazzo, G. Rebando,  
R. Ercoli.

REVIEW, per, Chimica Industria, Vol. XXII,  
No 1, 1960, p 52.

CTS(Chem)-109

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26 May 62  
Vol. IV, No 8

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Distribution of the Monomeric Units in Ethylene-  
Propylene Copolymers, by G. Natta, G. Mazzanti,  
23 pp.

ITALIAN, per, Chimica d l'Industria, Vol XLII, No 2,  
1960, pp 125-132.

SLA 60-16775

Sci

190, 054

Mar 62

Vol IV, No 6

On the Synthesis of Dicobalt Octacarbonyl.  
I. Study of the Synthesis of Dicobalt Octa-  
Carbonyl in Homogeneous Phase in Hydrocarbon  
Solvents, by P. Chini.

ITALIAN, per, Chimica Industria, Vol. XLII,  
No 2, 1960, pp 133-137.

CTS(Chem)-115

Sci.  
26 May 62  
Vol. IV, No 8

198, 246

On the Synthesis of Dicobalt Octacarbonyl.  
II. Study of the Synthesis of Dicobalt Octacarbonyl, in Homogeneous Phase, in Basic Solvents in the Lewis Sense, Synthesis in Heterogeneous Phase, by P. Chini.

IRALIANA, per, Chimica Industria, Vol XLII,  
No 2, 1960, pp 137-142.

CM(Chem)-118

Sci.  
26 May 62  
Vol. IV, No 8

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Di-Esotactic Polymers, by G. Fatta, M. Porripa,  
M. Peraldo.

ITALIANI, per, Chimica Industria, Vol XII,  
No 3, 1960, pp 225-259.

CIS(Chem) 120

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Vol IV, No 8

198, 243

Chirico, Aurelio de.

PHYSICOCHEMICAL RESEARCH ON SOLUTIONS OF  
POLYCARBONATE IN CHLOROFORM. [1962] 8p.

18 refs.

Order from SLA \$1.10

62-16061

Trans. of [la] Chim[ica] e [l'] Ind[ustria] (Italy) 1960,  
v. 42 [no. 3] p. 248-251.

DESCRIPTORS: \*Carbonates, \*Polymers, \*Chloroform  
Solutions, Physical properties, Chemical properties,  
Viscosity, Light, Scattering.

Some physicochemical properties of the polycarbonate

$[-O-C_6H_4-C(CH_3)_2-C_6H_4-O-CO-]_n$  in chloroform

were studied by means of viscosity measurements and  
measurements of the intensity of diffused light at the  
"Flory temperature" of the solution. The results are  
discussed according to the Flory-Fox theory. (Author)  
(Chemistry--Physical, TT, v. 8, no. 7)

62-16061

I. Chirico, A. de

Office of Technical Services

The Behavior of O,O-Dialkylthiophosphoryl Compounds in Acetic Acids (and Derivatives) With Arsenious Acid and a Method for the Selective Determination of Daid Compounds, by R. Russo, G. Marchese, 21 pp.

ITALIAN, per, Chimica e l'Industria, Vol. XXII, No 4, 1960, pp 337-347.

ATS-59M421

Sci.  
Vol IV, No 11  
May 62

197, 341

<p>Natta, G., Beati, E. and others. GRAFT POLYMERS: POLYSTYRENE GRAFTED ON POLYBUTENE. [1961] 10p. 4 refs. Order from SLA \$1.10</p> <p>Trans. of [la] Chimica e [l']Industria (Italy) 1960, v. 42, no. 4, p. 348-352. Another translation is available from CTS(Chem) \$10.00 as CTS(Chem)-129 [1960] 10p.</p> <p>DESCRIPTORS: *Polymers, *Butenes, *Styrenes, Polymerization.</p> <p>For abstract see Technical Translations 4: 313, 1960.</p> <p>(Chemistry--Organic, TT, v. 6, no. 5)</p>	<p>61-16703</p> <p>1. Title: Graft polymers I. Natta, G. II. Beati, E.</p> <p>180487</p> <p>Office of Technical Services</p>
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Polymerizations Promoted by Metal Amides and Their  
Stereospecificity, by G. Natta, G. Mazzanti, 16 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII, No 5,  
1960, pp 457-462.

CTS(Chem)-133

Sci

Mar 62

190, 056

Vol IV, No 6

Elastomers From Chlorosulfonated Polymers and  
Copolymers of Alpha-Olefins, by G. Natta, G. Crespi,  
M. Bruzzone, 13 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII, No 5,  
1960, pp 463-467.

CTS(Chem)-13<sup>b</sup>

Sci

190, 055

Mar 62

Vol IV, No 6

Anionic Coordination Copolymerization of Propylene  
with 1-Butene, by G. Mazzanti, A. Valvassori, 20 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII,  
No 5, 1960, pp 463-474.

CIS(Chem)-135

Sci

190, 053

Mar 62

Vol IV, No 6

Hydrolysis of Titanium Cyclopentadienyl  
Trichloride, by L. Porri, P. Corradini,  
3 pp.

ITALIAN, per, Chimica e l'Industria,  
Vol XLII, No 5, 1960, p 487.

Chemical Translating  
Service-136

Sci  
Vol IV, No 5  
Mar 62

188, 447

63-14402

Ercoli, R., Signorini, G., and Santambrogio, E.  
KINETICS OF THE HYDROCARBOXYLATION OF  
OLEFINS. [1963] [39]p. 16 refs.  
Order from SLA \$3.60

63-14402

Trans. of la Chimica e l'Industria (Italy) 1960, v. 42,  
no. 6, p. 588-598.

DESCRIPTORS: \*Cyclohexenes, \*Reaction kinetics,  
\*Carbon compounds, \*Monoxides, Water, Acetones,  
Pressure, Heat of activation, Carbonyl radicals,  
Benzoic acids, Cobalt compounds.

The kinetic study of the hydrocarboxylation of cyclohexene with carbon monoxide and water in the liquid phase under pressure with acetone as solvent and di-cobalt-octaearboxyl as catalyst gave the following results: The reaction appears to be of 1/2 order with respect to the olefin and of first order with respect to (Chemistry-Physical, TT, v. 10, no. 5) (over)

I. Ercoli, R.  
II. Signorini, G.  
III. Santambrogio, E.

Office of Technical Services

Optically Active Vinyl Polymers. I.  
Preparation of Isotactic Polymers of  
Optically Active  $\alpha$ -Olefins, by P. Pino,  
G. P. Lorenzi, L. Lardicci, 29 pp.

ITALIAN, per, Chimica et l'Industria,  
Vol XLIX, No 7, 1960, pp 712-721.

Chemical Translating  
Service-148

187, 022

Sci  
Vol IV, No 9  
Mar 62

Rossi, C., Munari, S. and others.  
CHROMATOGRAPHY IN GAS PHASE OF C<sub>1</sub>-C<sub>4</sub>  
HYDROCARBONS ON ORGANOPHILIC SILICAS  
(Cromatografia in Fase Gas di Idrocarburi C<sub>1</sub>-C<sub>4</sub> su  
Silic Organofile). [1961] [15]p. (foreign text included)  
6 refs.

Order from SLA \$1.60

62-10318

Trans. of la Chimica e l'Industria (Italy) 1960, v. 42,  
no. 7, p. 724-727.

DESCRIPTORS: \*Hydrocarbons, Isomers, \*Silicon compounds, \*Dioxides, Coatings, Chromatographic analysis, \*Gas chromatography, Organic compounds, Adsorption.

Silicas coated with organic radicals, obtained by esterification with alcohols, were used in the prep-  
(Chemistry--Analytical, TT, v. 7, no. 8) (over)

62-10318

I. Rossi, C.  
II. Munari, S.

Office of Technical Services

Dielectric Properties of Graft Polymers:  
Polystyrene Grafted on Polybutene Exhibiting  
Isotactic Crystallinity, by M. Pegoraro,  
M. Beati, F. Severini, 14 pp.

ITALIAN, per, Chimica et l'Industria,  
Vol XLII, No 8, 1960, pp 843-848.

Chemical Translating  
Service-157

Sci  
Vol IV, No 9  
Mar 62

1871, 021

Perrotti, G. and Castelfranchi, G.  
NEW POSSIBLE STABILIZERS FOR SYNTHETIC  
ELASTOMERS. 11 Apr 62 [16]p. 4 refs.  
Order from SLA \$1.60

63-10819

Trans. of [la] Chimica e l'Industria (Italy) 1960,  
v. 42, p. 854-858.

DESCRIPTORS: Stabilization, \*Elastomers, Diene  
synthesis, \*Naphthalenes.

63-10819

I. Perrotti, G.  
II. Castelfranchi, G.

(Materials--Elastomers, TT, v. 9, no. 12)

Office of Technical Services

Farina, M., Peraldo, M., and Bressan, G.  
PREPARATION, INFRARED SPECTRA, AND CON-  
FORMATIONAL ISOMERS OF cis- AND trans-ALKE-  
NYL ETHERS. Jan 63, 4900 words, 22 refs.  
Order from CTS(Chem) \$9.80 CTS(Chem)-315  
subsequent copies \$3.25/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1960, v. 42,  
no. 9, p. 967-974.

DESCRIPTORS: \*Ethers, Preparation, Spectrum (Infrared), Molecular isomerism.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12665

- I. Farina, M.
- II. Peraldo, M.
- III. Bressan, G.
- IV. CTS(Chem)-315
- V. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Caprara, G. and Lemetre, G.  
PHENOL AND CYCLOHEXANONE FROM CYCLO-  
HEXYLBENZENE. [1962] 11p.  
Order from K-H \$13.75

K-H 12005

Trans. of la Chimica e l'Industria (Italy) 1960, v.  
42, no. 9, p. 974-977.

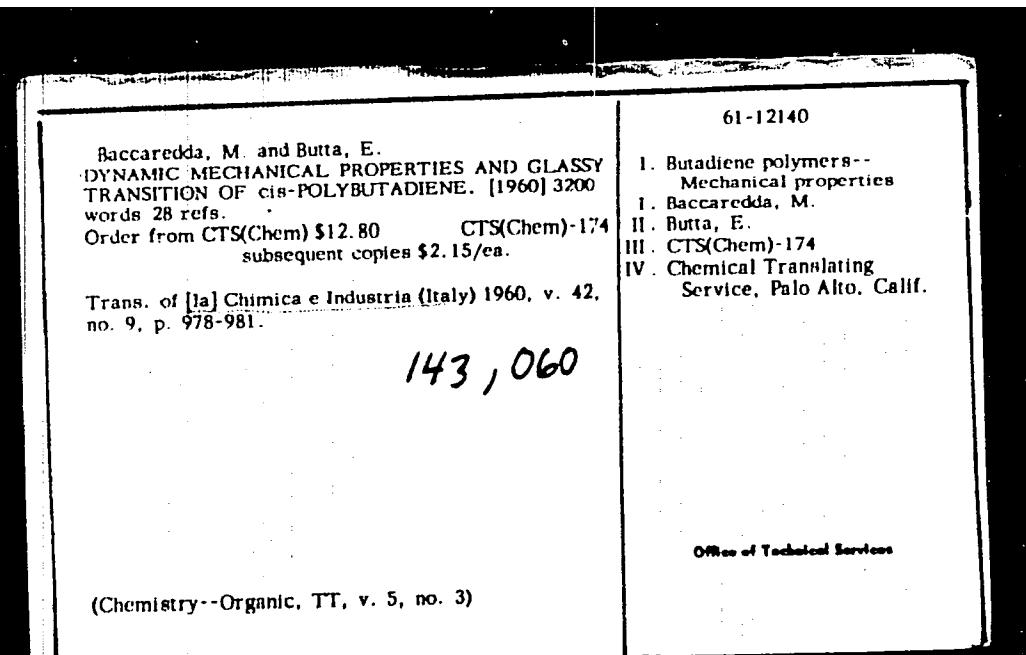
DESCRIPTORS: \*Phenols, \*Cyclohexanones, \*Benzene,  
\*Hexyl radicals.

63-12944

I. Caprara, G.  
II. Lemetre, G.  
III. K-H 12005  
IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

(Chemistry--Organic, TT, v. 9, no. 9)

Office of Technical Services



Natta, G., Giachetti, E. and others.  
CONTROL OF THE MOLECULAR WEIGHT OF  
ISOTACTIC POLYPROPYLENE BY MEANS OF ZINC  
ALKYLS. [1960] 6000 words 20 refs.  
Order from CTS(Chem) \$24.00 CTS(Chem)-178  
subsequent copies \$4.00/ea.

Trans. of [la] Chimica e Industria (Italy) 1960, v. 42,  
no. 10, p. 1091-1099.

143,061

(Chemistry--Organic, TT, v. 5, no. 3)

61-12141

1. Propene polymers--  
Molecular weight
2. Zinc compounds (Organic)--  
Chemical reactions
1. Natta, G.
- II. Giachetti, E.
- III. CTS(Chem)-178
- IV. Chemical Translating  
Service, Palo Alto, Calif.

Office of Technical Services

Natta, Giulio.  
CATALYTIC ASPECTS OF STEREOSPECIFIC POLYMERIZATIONS. [1960] 13,000 words, 79 refs.  
Order from CTS(Chem) \$48.00 CTS(Chem)-179  
Subsequent copies \$8.00/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1960,  
v. 42, no. 11, p. 1207-1225.

147,049

(Chemistry--Organic, TT, v. 5, no. 5)

61-12496

1. Ethylenes--Polymerization
  2. Metalorganic compounds--Catalytic properties
  3. Polymerization--Analysis
  4. Title: Stereospecific polymerization
- I. Natta, G.  
II. CTS(Chem)-179  
III. Chemical Translating Service, Palo Alto, Calif

Office of Technical Services

Bruzzone, Mario and Crespi, Giovanni.  
THE CHLORINATION OF ETHYLENE-PROPYLENE  
COPOLYMERS. [1960] 3000 words, 9 refs.  
Order from CTS(Chem) \$12.00 CTS(Chem)-180  
subsequent copies \$2.00/ca.

Trans. of [la] Chimica e [l']Industria (Italy) 1960,  
v. 42, no. 11, p. 1226-1230.

146, 916

(Chemistry--Organic, TT, v. 5, no. 5)

61-12499

1. Ethylene polymers--  
Halogeneration
2. Propene polymers--  
Halogeneration
3. Copolymerization
- I. Bruzzone, M.  
II. Crespi, G.  
III. CTS(Chem)-180  
IV. Chemical Translating  
Service, Palo Alto,  
Calif.

Office of Technical Services

Mostardini, Elena, Calderazzo, Pausto, and  
Ercoli, Raffaele.  
PREPARATION OF CHROMOTRICARBONYLBENZ-  
ALDEHYDE AND ITS DERIVATIVES. [1960]  
2500 words, 7 refs.  
Order from CTS(Chem) \$10.00 CTS(Chem)-181  
subsequent copies \$1.65/ea.

Trans. of [la] Chirurgia e [l'] Industria (Italy) 1960,  
v. 42, no. 11, p. 1231-1234.

148,605

(Chemistry--Organic, TT, v. 5, no. 7)

61-12500

1. Benzaldehydes--Synthesis
2. Chromium compounds  
(Organic)--Synthesis
- I. Mostardini, E.
- II. Calderazzo, F.
- III. Ercoli, R.
- IV. CTS(Chem)-181
- V. Chemical Translation  
Service, Palo Alto,  
Calif.

Office of Technical Services

Asta, Gino dall and Oddo, Nino.  
CATIONIC STEREOSPECIFIC POLYMERIZATION OF  
SOME ALKYL ETHERS. [1960] 2000 words 8 refs.  
Order from CTS(Chem) \$8.00 CTS(Chem)-182  
subsequent copies \$1.30/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1960.  
v. 42, no. 11, p. 1234-1237.

146,911.

(Chemistry--Organic, TT, v. 5, no. 5)

61-12561

1. Ethers--Polymerization
2. Vinyl compounds--Polymerization
3. Title: Stereospecific polymerization
- I. Asta, G. dall
- II. Oddo, N.
- III. CTS(Chem)-182
- IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

R-984-N

Comportamento di Esplosivi all' Azione di  
Raggi Gamma, by E. Piartanida, M. Piazz.

ITALIAN, per, La Chimica e l'Industria, Nov 1960,  
p 1238-1240.

\*JPRS for Picatinny Arsenal  
Dover, New Jersey

8 Aug 62

New Synthesis of Isocyanic Esters, by S. Rossi,  
et al.  
ITALIAN, par, Chimica e l'Industria, Vol 42,  
1960, p 1243.  
NTC 71-13677-07C

Feb 72

Peraldo, Mario and Farina, Mario.  
INFRARED SPECTRA OF DEUTERATED POLY-  
PROPYLENES. I. CRYSTALLINE ISOTACTIC POLY-  
MERS. 1961, 8500 words, 11 refs.  
Order from CTS(Chem) \$34.00 CTS(Chem)-190  
subsequent copies \$5.50/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1960,  
v. 42, no. 12, p. 1349-1361.

DESCRIPTORS: \*Deuterated compounds, \*Polymers,  
\*Propenes, \*Infrared spectroscopy, Crystals,  
Synthesis.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22481

I. Peraldo, M  
II. Farina, M.  
III. CTS(Chem)-190  
IV. Chemical Translating  
Service, Palo Alto, Calif.  
V. Title: Crystalline...

10455

Office of Technical Services

Natta, Giulio, Farina, Mario and others.  
TRITACTIC POLYMERS: LETTER TO EDITOR  
[1960] 1100 words, 3 refs.  
Order from CTS(Chem) \$4.40 CTS(Chem)-188  
subsequent copies \$0.75/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1960,  
v. 42, no. 12, p. 1361-1363.

148606

(Chemistry--Organic, TT, v. 5, no. 7)

61-12502

1. Polymers--Molecular structure
  2. Diene compounds-- Molecular structure
  3. Acrylic resins--Molecular structure
  4. Title: Tritactic polymers
- I. Natta, G.  
II. Farina, M.  
III. CTS(Chem)-188  
IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Matta, G.[full]o Farina, M.[arle] and others.  
ASTERISMATIC SYNTHESIS OF POLYTACTIC POLY-  
MERS. [1961] Jp.  
Order from ATS \$6.30  
ATS-55N49I

Trans. of [la] Chimica e [Tecnologia] (Italy) 1960,  
v. 42, no. 12, p. 1363-1364.

(Chemistry-Organic, TT, v. 5, no. 11)

61-22168

1. Polymers--Synthesis
2. Title: Polymeric polymers
3. Matta, G.
4. Farina, M.
5. ATS-55N49I
6. Associated Technical Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Corso, C.  
THERMAL DEHYDROHALOGENATION OF POLY-  
VINYLCHLORIDE. [1962] 3p.  
Order from ATS \$3.75

ATS-45P591

Transl. of [1] in *Plastics* [U.S.] Industrial Film Co.,  
1961, v. 43, no. 1, p. 8-9.

DESCRIPTORS: \*Vinyl chlorides, Polymers, \*De-  
hydrogenation, \*Halogenation, Chemical reactions,  
Chlorides.

(Materials--Plastics, TT, v. 8, no. 4)

b2-17141

I. Corso, C.  
II. ATS-45P591  
III. Associate Technical Services  
Inc., East Orange,  
N. J.

AT/1352-1000

Office of Technical Services

Crespi, G. and Bruzzone, M.  
THE VULCANIZATION OF CHLORINATED ETHYL-  
ENE-PROPYLENE COPOLYMERS (La Vulcanizzazione  
dei Copolimeri Etilene-Propilene Clorurati). [1961]  
[15]p. 8 refs.  
Order from SLA \$1.60

Trans. of *la Chimica e l'Industria* (Italy) 1961, v. 43,  
no. 2, p. 137-142.

Another translation is available from CTS(Chem)  
\$11.60, subsequent copies \$2.00/ea., as CTS(Chem)-  
204, 1961, 2900 words.

DESCRIPTORS: \*Polymers, \*Ethylenes, \*Propenes,  
Chlorination, \*Rubber, \*Vulcanization, Elastomers,  
Mechanical properties.

The chlorinated ethylene-propylene copolymers can be  
vulcanized with the conventional mixtures containing  
sulfur since during the thermal cycle of the vulcani-  
zation a partial dehydrochlorination of the polymer  
occurs with consequent formation of unsaturations.  
(Materials--Rubber, TT, v. 6, no. 5) (over)

61-16534  
63-20056  
I. Crespi, G.  
II. Bruzzone, M.

180465

Office of Technical Services

Mechanics of Mixing in a Liquid Flowing  
Over an Irregular Solid Surface, by  
G. Asturita, et al, 17 pp.

ITALIAN, per, La Chimica e L'Industria, 1961,  
pp 142-150.

ACSI 1-3620  
TD 22169

27-1403

Sci & Phys, Chem  
Dec 62

Natta, Giulio, Farina, Mario and others.  
ASYMMETRIC SYNTHESES OBTAINED BY PROCESSES  
OF CATIONIC CHARACTER. 1961. 1180 words, 3 refs.  
Order from CTS(Chem) \$4.80 CTS(Chem)-205  
Subsequent copies \$1.00/ea.

Trans. of [a] Chimica e [i] Industria (Italy) 1961,  
v. 43, no. 2, p. 161-162.

DESCRIPTORS: \*Polymers, Synthesis, Catalysts,  
\*Monocyclic compounds, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22482

- I. Natta, G.
- II. Farina, M.
- III. Chem(CTS)-205
- IV. Chemical Translating Service, Palo Alto, Calif.

169620

Chiusoli, G. P. and Merzoni, S.  
A NEW METHOD OF CATALYTIC CARBOXYLATION. Note 5 of Reactions of Allyl Derivatives with Acetylene and Carbon. [1961] [14 p. 14 refs.  
Order from SLA \$1.60 61-18689

Trans. of la Chimica e Industria (Italy) 1961, v. 43,  
p. 259-262.

DESCRIPTORS: \*Acetylenes, Metalorganic compounds,  
Hydrogen, Synthesis, \*Allyl radicals, \*Nickel com-  
pounds, \*Carbonyl radicals, Catalysts, Catalysts,  
\*Carbon compounds, \*Monoxides, Chemical reactions.

After a brief discussion of the reaction mechanism  
based on recent advances in the field of the chemistry  
of metallo-organic compounds, there is described a  
method of carboxylation consisting in the use of nickel  
compounds with catalytic action. (Author)  
(Chemistry--Physical, TT, v. 6, no. 12)

61-18689

I. Chiusoli, G. P.  
II. Merzona, S.  
III. Title: Reactions...

Office of Technical Services

Addition Reactions of the Allyl Group: Synthesis of  
 $\beta$ -Propionic Compounds, by G. P. Chiusoli.

ITALIAN, per, la Chimica e l'Industria, Vol XLIII,  
No 4, 1961, pp 365-368.

SIA 61-18690

Set  
Mar 62

189,546

Vol VII, No 2

Garlanda, Tiziano.  
PROCESSING AND VULCANIZATION OF CIS-1,4-POLYBUTADIENE. 1961, 4000 words, 12 refs.  
Order from CTS(Chem) \$16.00 CTS(Chem)-206  
subsequent copies \$2.70/ea.

Trans. of [la] Chimica e [i]Industria (Italy) 1961,  
v. 43, no. 4, p. 368-375.

DESCRIPTORS: \*Polymers, \*Butadienes, \*Vulcanization, Vulcanizates, Physical properties, Catalysts, Cobalt, Aluminum compounds, Halides.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22485

- I. Garlanda, T.
- II. CTS(Chem)-206
- III. Chemical Translating Service, Palo Alto, Calif.

J 6961 ..

Office of Technical Services

Lanzavecchia, Giuseppe.

A STUDY OF SOME PHYSICAL PROPERTIES OF  
1,4-CIS-POLYBUTADIENES OBTAINED BY MEANS OF  
NEW, SOLUBLE CATALYSTS. 1961, 1180 words,  
28 refs.  
Order from CTS(Chem) \$13.20 CTS(Chem)-207  
subsequent copies \$2.20/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1961,  
v. 43, no. 4, p. 370-381.

DESCRIPTORS: \*Polymers, \*Butadienes, Physical  
properties, Catalysts, Ethylenes.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22483

I. Lanzavecchia, G.  
II. Chem(CTS)-207  
III. Chemical Translating  
Service, Palo Alto, Calif.

109612

Office of Technical Services

Stress Corrosion Testing With Anodic Current  
Applied to Al-Mg Alloy, by Anna Prati.  
ITALIAN, per, Chim Ind, Vol XLIII, 1961,  
pp 381-389.

AEC/Culcheth Tr 63/7  
On loan only

UKAEA Culcheth Tr 63/7

Apr 65  
List # 96

Casnati, G., Piozzi, F. and others.  
CONSTITUTION OF ECHINULIN: SYNTHESIS OF  
2-TERTIARY-AMYL-5,7-DISOAMYLTRYPTOPHAN  
(Sulla Costituzione dell' Echinulina: Sintesi del 2-Terz.  
Amil-5,7-Disoamiltriptofano) tr. by D. A. Sinclair.  
1962, 6p. 7 refs. NRCC Technical Trans. 1051.  
Order from NRCC \$0.50 NRCC C-4199

Trans. of la Chimica e l'Industria (Italy) 1961, v. 43,  
p. 412-414.

DESCRIPTORS: Peptides, \*Amino acids, \*Tryptophan,  
Pentyl radicals, Synthesis, Condensation reactions.

(Biological Sciences--Biochemistry, TT, v. 9, no. 7)

63-12698

- I. Title: Echinulin
- II. Casnati, G.
- III. Piozzi, F.
- IV. Title: Synthesis...
- V. NRCC TT-1051
- VI. NRCC C-4199
- VI. National Research Council  
of Canada

Office of Technical Services

Conti, Leonetto, Lardicci, Luciano, and Pino, Piero.  
SYNTHESIS OF (+)-TRIS(2-METHYLBUTYL) ALUMINUM. 1961, 550 words, 7 refs.  
Order from CTS(Chem) \$2.20  
Subsequent copies \$0.50/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1961, v. 43  
[no. 4] p. 414.

DESCRIPTORS: Methyl radicals, Butyl radicals, \*Aluminum, Synthesis, Metalorganic compounds.

(Chemistry--Organic, TT, v. 6, no. 10)

61-25419

- I. Conti, L.
- II. Lardicci, L.
- III. Pino, P.
- IV. CTS(Chem)-218
- V. Chemical Translating Service, Palo Alto, Calif.

7339

Office of Technical Services

Pasquon, L., Porri, L. A. and others.  
COPOLYMERIZATION OF BUTADIENE AND ISOPRENE WITH CATALYSTS OBTAINED FROM COBALT DIACETYLACETONATE-DIETHYALUMINUM CHLORIDE-TOLUENE. 1961, 2500 words, 10 refs.  
Order from CTS(Chem) \$10.00 CTS(Chem)-213  
subsequent copies \$1.70 ea

Trans. of [a] Chimica e [i] Industria (Italy) 1961,  
v. 43, no. 5, p. 509-512.

DESCRIPTORS: \*Butadienes, \*Isoprene, \*Copolymerization, \*Catalysts, Cobalt compounds, Toluene, Acetyl radicals, Acetones, Aluminum compounds, Chlorides, Ethyl radicals.

(Chemistry--Organic, TT, v. 6, no. 5)

61-22739

I. Pasquon, L.  
II. Porri, L. A.  
III. CTS(Chem)-213  
IV. Chemical Translating Service, Palo Alto, Calif.

180535

Office of Technical Services

Natta, G., Porri, L., and others.  
OPTICALLY ACTIVE ISOTACTIC trans-1,  
4 POLYPENTADIENE. Letter to the Editor. 1961.  
900 words, 8 refs.  
Order from CTS(Chem) \$4.00 CTS(Chem)-216  
subsequent copies \$0.75/ea.

Trans. of [la] Chimica e [1] Industria (Italy) 1961,  
v. 43, no. 5, p. 529.

DESCRIPTORS: \*Pentadienes, Polymers, Synthesis,  
Optics.

(Chemistry--Organic, TT, v. 6, no. 6)

61-22740

I. Natta, G.  
II. Porri, L.  
III. CTS(Chem)-216  
IV. Chemical Translating  
Service, Palo Alto,  
Calif.

176638

Office of Technical Services

Longlave, C., Castelli, R., and Croce, G. P.  
NEW STEREOSPECIFIC CATALYSTS FOR THE  
POLYMERIZATION OF BUTADIENE. 1961, 3500  
words, 12 refs.  
Order from CTS (Chem) \$14.00 CTS(Chem)-230  
subsequent copies \$2.30/ea.

Trans. of [la] Chimica e [1'] Industria (Italy) 1961.  
v. 43, no. 6, p. 625-630.

DESCRIPTORS: \*Butadienes, Polymerization, Catalysts  
\*Metalorganic compounds, Catalysis, Cobalt compounds  
Aluminum compounds, Chlorides, Complex compounds,  
Stereochemistry, Polymers.  
  
(Chemistry--Organic, TT, v. 6, no. 10)

61-25423

- I. Longlave, C.
- II. Castelli, R.
- III. Croce, G. P.
- IV. CTS(Chem)-230
- V. Chemical Translating  
Service, Palo Alto, Calif.

7542

Office of Technical Services

Chiusoli, Gian Paolo.  
PROGRESS IN ORGANIC REACTIONS WITH CARBON  
MONOXIDE. Paper from Fair of Milan (no. 39) 18-20  
Apr 61. 1961, 2400 words, 15 refs.  
Order from CTS(Chem) \$9.60 CTS(Chem)-233  
Subsequent copies \$1.60/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1961, v. 43,  
no. 6, p. 636-640.

DESCRIPTORS: \*Carbon compounds, Monoxides,  
Metallic compounds, Carbonyl radicals, Chemical  
reactions, Synthesis, Catalysts.

(Chemistry--Organic, TT. v. 6, no. 10)

61-25424

- I. Chiusoli, G. P.
- II. Title: Fair...
- III. CTS(Chem)-233
- IV. Chemical Translating Service,  
Palo Alto, Calif.

101343

Office of Technical Services

Gurdjian, Vahram  
PROGRESS IN THE FIELD OF DIRECT OXIDATION  
OF ETHYLENE. [1962] Sp. 26 refs.  
Order from CTS (Chem) \$10.00 CTS(Chem)-256  
subsequent copies \$1.50/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1961,  
v. 43, no. 6, p. 641-649.

DESCRIPTORS: \*Ethylenes, \*Oxidation, Ethylene  
derivatives, \*Acetaldehydes, Catalysts.

(Engineering--Chemical, TT, v. 8, no. 1)

62-12961

- I. Gurdjian, V.
- II. CTS(Chem)-256
- III. Chemical Translating  
Service, Palo Alto, Calif.

Office of Technical Services

Berti, Lamberto.  
A NEW PETROLEUM-DERIVED ELASTOMER; ITS  
CHARACTERISTICS AND USES, Paper from Fair of  
Milan (no. 39) 18-20 Apr 61, 1961, 2850 words, 5 refs.  
Order from CTS (Chem) \$11.40 CTS(Chem)-234  
subsequent copies \$1.90

Transl. of [la] Chimica e [l']Industria (Italy) 1961,  
v. 43, no. 6, p. 644-648.

DESCRIPTORS: Italy, Chemical industry, \*Elastomers,  
\*Petroleum, Industrial research, Polymerization,  
\*Synthetic rubber, Vulcanizates.

(Materials--Elastomers, TT, v. 6, no. 11)

61-25425

- I. Berti, L.
- II. Title: Fair ...
- III. CTS(Chem)-234
- IV. Chemical Translating  
Service, Palo Alto,  
Calif.

Office of Technical Services

Zannetti, R., Manaresi, P., and Buzzoni, G. C.  
CRYSTALLINITY AND POLYMORPHISM OF  
POLY- $\alpha$ -BUTENE. [1961] 4000 words, 10 refs.  
Order from CTS(Chem) \$16.00 CTS(Chem)-235  
Subsequent copies \$2.70/ea

Trans. of [la] Chimica e [l]l'Industria (Italy) 1961,  
v. 43, no. 7, p. 735-740.

DESCRIPTORS: \*Butenes, \*Polymers, Crystal  
structure, \*Polymorphism, Density, X-ray diffraction  
analysis.

(Chemistry--Organic, TT, v. 7, no. 7)

62-12300

I. Zannetti, R.  
II. Manaresi, P.  
III. Buzzoni, G. C.  
IV. CTS(Chem)-235  
V. Technical Translation  
Service, Palo Alto,  
Calif.

62-14311

Office of Technical Services

Vecchi, E., Zannetti, R. and others.  
RELATION BETWEEN THE SURFACE AREA OF  
 $TiCl_3$  AND ITS CATALYTIC ACTIVITY IN STEREO-  
SPECIFIC CATALYSTS FOR THE POLYMERIZATION  
OF ALPHA-OLEFINS. [1961] 2200 words, 11 refs.  
Order from CTS(Chem) \$8.80                    CTS(Chem)-240  
subsequent copies \$1.75/ea.

Trans. of [la] Chimica e [li] Industria (Italy) 1961,  
v. 43, no. 7, p. 741-743.

DESCRIPTORS: \*Titanium compounds, \*Chlorides,  
Surface area, \*Catalysts, \*Ethylenes, Polymerization,  
Chemical industry.

(Chemistry--Physical, TT, v. 7, no. 9)

b2-12299

- I. Vecchi, E.
- II. Zannetti, R.
- III. CTS(Chem)-240
- IV. Chemical Translating  
Service, Palo Alto,  
Calif.

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